

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
PATENT APPLICATION

5     Entitled :   A FUEL METERING UNIT WITH A COMPENSATED  
                  REGULATOR VALVE IN A TURBOMACHINE

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ABSTRACT OF THE DISCLOSURE

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          A fuel metering unit in a turbomachine is connected  
between a high pressure pump which draws fuel from a fuel  
tank and a plurality of fuel injectors disposed in a  
combustion chamber of the turbomachine, the unit  
20    comprises a meter which receives the fuel for injection  
from a regulator valve at a pressure P1 and delivers it  
at a pressure P2 to said plurality of injectors via a  
stop valve, said regulator valve serving to recirculate  
fuel back to said high pressure pump as a function of the  
25    pressure difference between pressures taken directly from  
the terminals of the meter and injected into two end  
inlets of the regulator valve.